

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently amended): A method for modification of color values in a page description file, the method comprising:

identifying at least some implicit color commands within the page description file;
and

converting the identified implicit color commands within the page description file to explicit color commands such that the explicit color commands replace the implicit color commands within the page description file; and

modifying color values specified by the explicit color commands.

Claim 2 (Previously presented): The method of claim 1, wherein converting the identified implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 3 (Currently amended). The method of claim 1, ~~further comprising modifying color values specified by the explicit color commands~~ wherein converting the identified implicit color commands includes applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands.

Claim 4 (Previously Presented): The method of claim 1, wherein one or more of the identified implicit color commands defines reproduction of a graphic image object over a color range, and the corresponding explicit color command defines reproduction of the image object by reproduction of individual color values within the color range.

Claim 5 (Original): The method of claim 1, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to explicit color commands.

Claim 6 (Previously Presented): The method of claim 1, wherein one or more of the identified implicit color commands is a shading command that defines a graphic image object characterized by a starting color value, an ending color value, and a shading function over a range of color values between the starting color value and the ending color value.

Claim 7 (Original): The method of claim 6, wherein the explicit color command for the shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by the shading function in an area of the graphic image object corresponding to the respective sub-object.

Claim 8 (Original): The method of claim 1, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 9 (Currently amended): The method of claim 1, wherein the explicit color commands, upon raster imaging processing by an output device, define visual output that is analogous to visual output defined by the corresponding implicit color commands.

Claim 10 (Currently amended): A computer-implemented system for modification of color values in a page description file, the system comprising a processor that is programmed to:

identify implicit color commands within the page description file; ~~and~~
convert the identified implicit color commands within the page description file to explicit color commands such that the explicit color commands replace the implicit color commands within the page description file; and
modify color values specified by the explicit color commands.

Claim 11 (Previously Presented): The system of claim 10, wherein the processor is programmed to convert the identified implicit color commands without raster image processing the page description file.

Claim 12 (Currently amended) The system of claim 10, wherein the processor is programmed to ~~modify color values specified by the explicit color commands within the page description file~~ convert the identified implicit color commands by applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands

Claim 13 (Previously Presented): The system of claim 10, wherein one or more of the identified implicit color commands defines reproduction of a graphic image object over a color range, and the corresponding explicit color command defines reproduction of the image object by reproduction of individual color values within the color range.

Claim 14 (Original): The system of claim 10, wherein the processor converts substantially all implicit color commands within the page description file to explicit color commands.

Claim 15 (Previously Presented): The system of claim 10, wherein one or more of the identified implicit color commands is shading command that defines a graphic image object characterized by a starting color value, an ending color value, and a shading function over a range of color values between the starting color value and the ending color value.

Claim 16 (Original): The system of claim 15, wherein the explicit color command for the shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by a shading function in an area of the graphic image object corresponding to the respective sub-object.

Claim 17 (Original): The system of claim 10, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 18 (Currently amended): A computer-readable medium storing program code that upon execution by a processor:

identifies at least some implicit color commands within the page description file; ~~and~~
converts the identified implicit color commands within the page description file to explicit color commands such that the explicit color commands replace the implicit color commands within the page description file; and
modifies color values specified by the explicit color commands.

Claim 19 (Previously Presented): The computer-readable medium of claim 18, wherein the program code is arranged to convert the identified implicit color commands without raster image processing the page description file.

Claim 20 (Currently amended): The computer-readable medium of claim 18, wherein the program code is ~~configured to modify color values specified by the explicit color commands within the page description file~~ arranged to convert the identified implicit color commands by applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands.

Claim 21 (Previously Presented): The computer-readable medium of claim 18, wherein one or more of the identified implicit color commands defines reproduction of an image object over a color range, and the corresponding explicit color command defines reproduction of the image object by reproduction of individual color values within the color range.

Claim 22 (Original): The computer-readable medium of claim 18, wherein the program code is configured such that the processor converts substantially all implicit color commands within the page description file to explicit color commands.

Claim 23 (Previously Presented): The computer-readable medium of claim 18, wherein one or more of the identified implicit color commands is a shading command that defines a graphic image object characterized by a starting color value, and ending color value, and a shading function over a range of color values between the starting color value and the ending color value.

Claim 24 (Original): The computer-readable medium of claim 23, wherein the explicit color command for the shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by the shading function in an area of the image object corresponding to the respective sub-object.

Claim 25 (Original): The computer-readable medium of claim 18, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 26 (Currently amended): A method for modification of color values in a page description file, the method comprising:

identifying implicit color commands within the page description file; ~~and~~
converting each of the implicit color commands within the page description file to a plurality of implicit color sub-commands such that the implicit color sub-commands replace the implicit color commands within the page description file; and
modifying color values specified by the implicit color sub-commands,
wherein each of the implicit color commands pertains to a spatial area, and each of the implicit color sub-commands pertains to a sub-section within the spatial area.

Claim 27 (Currently amended): The method of claim 26, wherein converting the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 28 (Canceled).

Claim 29 (Original): The method of claim 26, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to implicit color sub-commands.

Claim 30 (Original): The method of claim 26, wherein the conversion includes converting some of the implicit color commands within the page description file to implicit color sub-commands, and converting others of the implicit color commands to explicit color commands.

Claim 31 (Original): The method of claim 26, wherein the color values include cyan, magenta, yellow and black color values.

Claim 32 (Currently amended): A computer-implemented system for modification of color values in a page description file, the system comprising a processor that is programmed to:

identify implicit color commands within the page description file; ~~and~~
convert each of the implicit color commands within the page description file to a plurality of implicit color sub-commands such that the implicit color sub-commands replace the implicit color commands within the page description file; and
modify color values specified by the implicit color sub-commands,
wherein each of the implicit color commands pertains to a spatial area, and each of the implicit color sub-commands pertains to a sub-section within the spatial area.

Claim 33 (Original): The system of claim 32, wherein converting the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 34 (Canceled).

Claim 35 (Original): The system of claim 32, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to implicit color sub-commands.

Claim 36 (Original): The system of claim 32, wherein the conversion includes converting some of the implicit color commands within the page description file to implicit color sub-commands, and converting others of the implicit color commands to explicit color commands.

Claim 37 (Original): The system of claim 32, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 38 (Currently amended): A computer-readable medium storing program code that upon execution by a processor:

identifies implicit color commands within the page description file; ~~and~~
converts each of the implicit color commands within the page description file to a plurality of implicit color sub-commands such that the implicit color sub-commands replace the implicit color commands within the page description file; and
modifies color values specified by the implicit color sub-commands,
wherein each of the implicit color commands pertains to a spatial area, and each of the implicit color sub-commands pertains to a sub-section within the spatial area.

Claim 39 (Original): The computer-readable medium of claim 38, wherein the conversion of the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 40 (Canceled).

Claim 41 (Original): The computer-readable medium of claim 38, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to implicit color sub-commands.

Claim 42 (Original): The computer-readable medium of claim 38, wherein the conversion includes converting some of the implicit color commands within the page description file to implicit color sub-commands, and converting others of the implicit color commands to explicit color commands.

Claim 43 (Original): The computer-readable medium of claim 38, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 44 (Currently amended): A method of modification of color values in a page description file, the method comprising:

accessing implicit color commands within the page description file; ~~and~~
converting the implicit color commands to explicit color commands by applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands;

~~modifying the explicit color values specified by the implicit color commands within the page description file~~ without raster image processor-converting (RIP-converting) the page description file based on a profile that characterizes color output by a device to generate a revised page description file.

Claim 45 (Currently amended): A computer-implemented system for modification of color values in a page description file, the system comprising a processor that is programmed to:

access implicit color commands within the page description file;
convert the implicit color commands to explicit color commands by applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands; and

~~modify the explicit color values specified by the implicit color commands within the page description file~~ without raster image processor-converting (RIP-converting) the page description file based on a profile that characterizes color output by a device to generate a revised page description file.

Claim 46 (Currently amended): A computer-readable medium storing program code that upon execution by a processor:

accesses implicit color commands within the page description file;
converts the implicit color commands to explicit color commands by applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands; and

~~modifies the explicit color values specified by the implicit color commands within the page description file~~ without raster image processor-converting (RIP-converting) the page

description file based on a profile that characterizes color output by a device to generate a revised page description file.

Claim 47 (Currently amended): A method for modification of color values in a page description file having implicit color commands that specify color values as a function of graphic information and color reference values, the method comprising:

identifying the implicit color commands within the page description file; ~~and~~

converting the implicit color commands within the page description file to explicit color commands within the page description file that specify explicit color values without raster image processing the page description file such that the explicit color commands replace the implicit color commands within the page description file, wherein converting the implicit color commands includes applying a conversion table to the implicit color commands, and wherein the conversion table includes a library of explicit color commands for known implicit color commands; and

modifying color values specified by the explicit color commands based on a profile that characterizes color output by a device to generate a revised page description file.

Claim 48 (Currently amended): A method for modification of color values in a page description file, the method comprising:

parsing the page description file to identify implicit color commands that provide implicit definitions of color values;

for each of the identified implicit color commands, generating an explicit color command that approximates the function and content defined by the identified implicit color command by applying a conversion table to the implicit color commands, wherein the conversion table includes a library of explicit color commands for known implicit color commands; and

replacing each of the identified implicit color commands within the page description file with the corresponding explicit command within the page description file.

Claim 49 (Previously Presented): The method of claim 48, further comprising leaving intact implicit spatial commands within the page description file without converting the implicit spatial commands to explicit spatial commands.

Claim 50 (Currently amended): A method for modification of color values in a page description file, the method comprising:

identifying an implicit shading command within the page description file that defines a graphic image object characterized by a starting color value, an ending color value, and a shading function over a range of color values between the starting color value and the ending color value;

converting the identified implicit shading command within the page description file to explicit color commands within the page description file without raster image processing the page description file, wherein the explicit color commands for the implicit shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by the shading function in an area of the graphic image object corresponding to the respective sub-object; and

modifying color values specified by the explicit color commands based on a profile that characterizes color output by a device to generate a revised page description file.